

the piezoelectric material while the temperature of the piezoelectric material is kept at the required temperature, wherein the temperature-raising portion and the constant-temperature bath are separated from each other.

11. (Amended) A method of polarizing a piezoelectric material inside high-temperature gas, the method comprising the steps of:

raising the temperature of the piezoelectric material, located at a first location, to a temperature required to polarize the piezoelectric material; and

polarizing the piezoelectric material by placing the piezoelectric material at a second location, separated from the first location, into an atmosphere of gas the temperature of which is maintained at the required temperature.

12. (Amended) A method of polarizing a piezoelectric material inside high-temperature gas according to Claim 11, further comprising the step of:

performing an aging operation on the polarized piezoelectric material in the same atmosphere of gas.